

ROCK AND MINERAL REPOSITORY

County: Grayson

VDMR Sample No: R-1870

General Name: Arkose conglomerate Formation or Unit: lower Unicoi Age: Cambrian

Location: 6 miles west of Fries

Collector: Claude Brewer (driller) (Grayson 59) Date Collected: 7/28/60

Megascopic Description

Name: Hand Specimen: Loose Material: drill cuttings

Color: fresh - white-light buff
weathered -

Distinguishing features: Arkose conglomerate consisting of fragmental quartz, feldspar, and clay material.

Mineral constituents	Estimated Percentage	Size	Color
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Cuttings too small for megascopic description

Geologic description:

ROCK AND MINERAL REPOSITORY CONTD.

Microscopic Description under binocular microscope

Name: Thin section: Fragment immersion:

Polished section:

Distinguishing features (incl. fabric and texture):

Mineral constituents	Percentage	Size
quartz	50%	Medium-very coarse
feldspar	20%	
clay	30%	

Additional test data (to incl. x-ray, spectrographic, physical, chemical and other test data)
samples taken at 60-70 feet

Evaluation of samples
fair water aquifer if clay isn't too
prevalent.

Item	Last Name & Init.	Date
Mega. Desc.		
Geol. Desc.		
Micro. Desc.	Gardner L. H.	9/27/61
Eval.		

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
 DIVISION OF MINERAL RESOURCES

Box 3667, University Station, Charlottesville, Virginia

WWCR-#59
 VDMR-#478

WATER WELL COMPLETION REPORT

OWNER: Dessie Thomas Mailing Address: _____
 TENANT: _____ Mailing Address: _____
 DRILLER: Claude S. Brewer Mailing Address: Galax, Box 32, Va.
 WELL LOCATION: County Grayson Approx. 6 miles
West (direction) of Fries and _____ ft miles of Liberty Hill
(Give direction and distance in feet or tenths of mile from two reference points - roads, towns, rivers, etc. - on county highway or other map.)

WATER CONDITIONS

DEPTH
 STATIC WATER LEVEL 35
 WATER ZONES (fissures or formations supplying water)
 (from) (to) (from) (to)
 _____ ft. _____, _____ ft.
 _____ ft. _____, _____ ft.
QUANTITY OF WATER
 WELL PUMPED (or bailed) at 5? Gal. per Min. with
 _____ feet **DRAWDOWN** after _____ HOURS PUMPING.
 FLOW (natural) _____ G.P.M. HEAD _____ ft. (above ground)
 REMARKS: _____

QUALITY OF WATER

COLOR Clear TASTE _____
 ODOR _____ OTHER _____
 ANALYSIS: AVAILABLE - Yes No ATTACHED Yes No
 TEMPERATURE _____
 _____ WATER (from) _____ ft. (to) _____ ft.
(salt, brackish, iron, sulfur, acid, other)
 USE OF WATER: Domestic Town Industry Farm Public

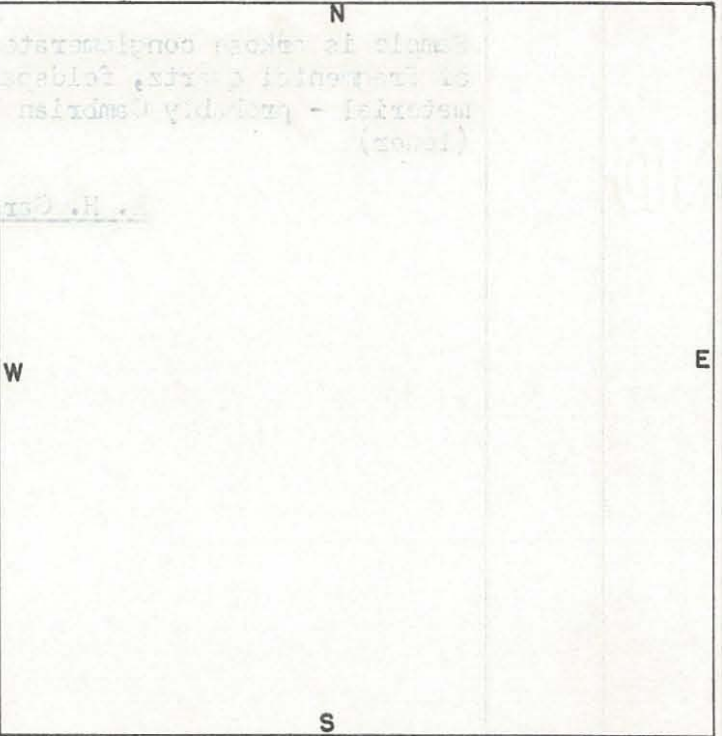
CONSTRUCTION

RIG TYPE (or method) Cable
(rotary, cable, bored, driven, etc...)
 DATE: Started 7/25/60; Completed 7/25/60
 TOTAL DEPTH 67 ft.
 BEDROCK at _____ ft.

GROUTING INFORMATION

METHOD USED _____
 GROUTING MATERIAL _____
 DEPTH OF GROUTING _____

REMARKS: Silt
Siltstone
Sandrock
Sampled at 60-70 ft. interval
Source of information: Claude S. Brewer, Driller



HOLE SIZE

(diam) _____ in. (from) _____ ft. (to) _____ ft.
 _____ in. _____ ft. _____ ft.

CASING SIZE

(diam) _____ in. (from) _____ ft. (to) _____ ft.
 _____ in. _____ ft. _____ ft.

SCREEN (or perforations)

(diam.) _____ in. (from) _____ ft. (to) _____ ft. (opening size)

PUMP (installed)

TYPE _____ Cap. (gpm) _____
 H.P. _____ Depth of intake _____ ft.

LOG

FURNISHED BY _____ DATE: _____

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc)
FROM	TO		
0	10	Silt, soil	Fragments taken from well wall (WRIS)
10	60 ?		Sample taken (WRA)
60	70	Sample is arkose conglomerate consisting of fragmental quartz, feldspar, and clay material - probably Cambrian Unicoi (lower)	
		<u>L. H. Gardner</u>	